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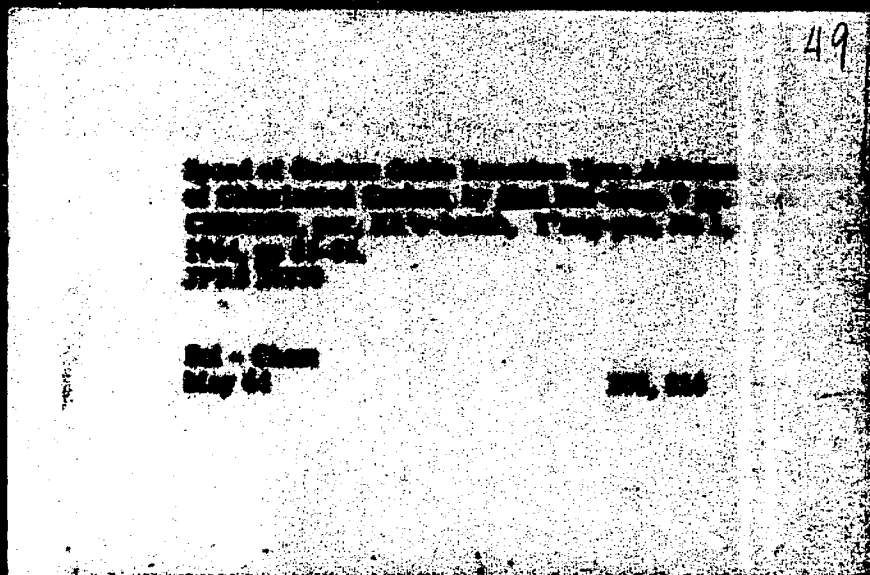
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DESCRIPTORS: Hydrocarbons, Monocyclic compounds, *Cyclohexenes, *Cyclopentenes, Molecular isomerism, Chemical reactions, Catalysts.

When cyclohexyl chloride is contacted with alumina containing 10 per cent ferric oxide at 300°, a virtually complete elimination of hydrogen chloride takes place. This reaction is accompanied by isomerization of the cyclohexene formed, yielding 1-methyl-1-cyclopentene as the principal product and 1-methyl-2-cyclopentene in subordinated quantities. Hydrogen chloride, elimi-

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